

Amendments to the Claims:

1. (Currently amended) ~~A self-adhesive, active ingredient containing matrix patch for controlled delivery of active ingredients to the skin, based on comprising a polyurethane gel[[s]] matrix, wherein the polyurethane gel matrix comprises at least one active ingredient is present in the matrix and where at least one penetration enhancers have been added to the matrix.~~

2. (Currently amended) ~~A self-adhesive, active ingredient containing~~ The matrix patch of as claimed in claim 1, characterized in that wherein the total concentration of the at least one penetration enhancers have been added to the matrix at is up to 30% by weight, in particular from 5 to 15% by weight based on the total weight of the polyurethane gel matrix.

3. (Currently amended) ~~A self-adhesive, active ingredient containing~~ The matrix patch of as claimed in claim[[s]] 1 and 2, characterized in that wherein the at least one penetration enhancers used comprise includes at least one lipophilic solubilizers/ or enhancers such as decyl oleate, isopropyl myristate and isopropyl palmitate (IPM and IPP), 2-octyldodecanol and/or other fatty acid esters.

4. (Currently amended) ~~A self-adhesive, active ingredient containing~~ The matrix patch of as claimed in claim[[s]] 1 to 3, characterized in that wherein the polyurethane gel matrix consists of polyurethane is in foamed or unfoamed form.

5. (Currently amended) ~~A self-adhesive, active ingredient containing~~ The matrix patch of as claimed in claim[[s]] 1 to 4, characterized in that wherein the at least one active ingredients used comprise includes at least one ingredient selected from the group consisting of essential oils, cosmetic skin-care additives, pharmaceutically active substances, and/or antiseptics, especially hyperemic active substances.

6. (Currently amended) ~~A self-adhesive, active ingredient containing~~ The matrix patch of as claimed in claim[[s]] 1 to 5, characterized in that the matrix comprises wherein the

total concentration of the at least one active ingredient is from 0.1 to 20% by weight, preferably from 2 to 10% by weight, of an active ingredient based on the total weight of the matrix.

7. (Currently amended) ~~A self-adhesive, active ingredient-containing~~ The matrix patch of as claimed in claim[[s]] 1 to 6, characterized in that wherein the matrix has a thickness of the polyurethane gel matrix is from 10 to 2000 μm , very particularly from 100 to 1500 μm .

8. (Currently amended) ~~A self-adhesive, active ingredient-containing~~ The matrix patch of as claimed in claim[[s]] 1 to 7, characterized in that the matrix has been applied to further comprising a backing material, preferably in such a way that the periphery of the backing material at least in part is not covered by the adjacent the polyurethane gel matrix.

9. (Currently amended) ~~A self-adhesive, active ingredient-containing~~ The matrix patch of as claimed in claim 8, characterized in that between matrix and backing material there is further comprising an adhesive layer between the polyurethane gel matrix and the backing material.

10. (Currently amended) ~~A self-adhesive, active ingredient-containing~~ The matrix patch of as claimed in claim[[s]] 8 and 9, wherein the backing material comprises an occlusive sheets, preferably of polyethylene, polypropylene and/or polyester, are used as backing material.

11. (New) The matrix patch as claimed in claim 10, wherein the backing material is selected from the group consisting of polyethylene, polypropylene, and polyester.

12. (New) The matrix patch as claimed in claim 2, wherein the total concentration of the at least one penetration enhancer is from 5 to 15% by weight, based on the total weight of the polyurethane gel matrix.

13. (New) The matrix patch as claimed in claim 1, wherein the at least one penetration enhancer includes at least one fatty acid ester.

14. (New) The matrix patch as claimed in claim 13, wherein the at least one fatty acid ester is selected from the group consisting of decyl oleate, isopropyl myristate, isopropyl palmitate, and 2-octyldodecanol.

15. (New) The matrix patch as claimed in claim 1, wherein the at least one penetration enhancer includes at least one fatty alcohol.

16. (New) The matrix patch as claimed in claim 1, wherein the at least one penetration enhancer is selected from the group consisting of C₈ - C₁₈ fatty acid esters of short-chain alcohols or fatty alcohols; diesters and diethers of polyethylene glycol 6 to 12 and C₈ - C₁₈ fatty alcohols or C₈ - C₁₈ fatty acids; propylene glycol diesters of C₈ - C₁₈ fatty alcohols, and glycerol diesters or triesters of C₈ - C₁₈ fatty alcohols.

17. (New) The matrix patch as claimed in claim 1, wherein the at least one active ingredient includes at least one hyperemic active ingredient.

18. (New) The matrix patch as claimed in claim 17, wherein the at least one hyperemic active ingredient includes at least one ingredient selected from the group consisting of nonivamide, benzyl nicotinate, propyl nicotinate, capsaicin, and cayenne pepper.

19. (New) The matrix patch as claimed in claim 6, wherein the total concentration of the at least one active ingredient is from 2 to 10% by weight, based on the total weight of the matrix.

20. (New) The matrix patch as claimed in claim 7, wherein the thickness of the polyurethane gel matrix is from 100 to 1,500 μm .

21. (New) The matrix patch as claimed in claim 7, wherein the thickness of the polyurethane gel matrix is from 10 to 1,000 μm .

22. (New) The matrix patch as claimed in claim 7, wherein the thickness of the polyurethane gel matrix is from 30 to 300 μm .

23. (New) The matrix patch as claimed in claim 8, wherein said backing material does not cover at least a portion of the periphery of the polyurethane gel matrix.

24. (New) The matrix patch as claimed in claim 1, wherein the at least one active ingredient includes nonivamide.

25. (New) The matrix patch as claimed in claim 24, wherein the at least one penetration enhancer includes isopropyl palmitate.

26. (New) A polyurethane gel matrix comprising at least one active ingredient and at least one penetration enhancer.

27. (New) The gel matrix-as claimed in claim 26, wherein the total concentration of the at least one penetration enhancer is up to 30% by weight, based on the total weight of the polyurethane gel matrix.

28. (New) The gel matrix-as claimed in claim 27, wherein the total concentration of the at least one penetration enhancer is from 5 to 15% by weight, based on the total weight of the polyurethane gel matrix.

28. (New) The gel matrix-as claimed in claim 26, wherein the at least one penetration enhancer includes at least one lipophilic solubilizer or enhancer.

29. (New) The gel matrix-as claimed in claim 26, wherein the at least one penetration enhancer includes at least one fatty acid ester.

30. (New) The gel matrix-as claimed in claim 29, wherein the at least one fatty acid ester is selected from the group consisting of decyl oleate, isopropyl myristate, isopropyl palmitate, and 2-octyldodecanol.

31. (New) The gel matrix as claimed in claim 26, wherein the at least one penetration enhancer includes at least one fatty alcohol.

32. (New) The gel matrix as claimed in claim 26, wherein the at least one penetration enhancer is selected from the group consisting of C₈ - C₁₈ fatty acid esters of short-chain alcohols or fatty alcohols; diesters and diethers of polyethylene glycol 6 to 12 and C₈ - C₁₈ fatty alcohols or C₈ - C₁₈ fatty acids; propylene glycol diesters of C₈ - C₁₈ fatty alcohols, and glycerol diesters or triesters of C₈ - C₁₈ fatty alcohols.

33. (New) The gel matrix-as claimed in claim 26, wherein the polyurethane gel matrix is in foamed form.

34. (New) The gel matrix-as claimed in claim 26, wherein the at least one active ingredient includes at least one ingredient selected from the group consisting of essential oils, cosmetic skin-care additives, pharmaceutically active substances, and antiseptics.

35. (New) The gel matrix-as claimed in claim 26, wherein the at least one active ingredient includes at least one hyperemic active ingredient.

36. (New) The gel matrix-as claimed in claim 35, wherein the at least one hyperemic active ingredient includes at least one ingredient selected from the group consisting of nonivamide, benzyl nicotinate, propyl nicotinate, capsaicin, and cayenne pepper.

37. (New) The gel matrix-as claimed in claim 26, wherein the total concentration of the at least one active ingredient is from 0.1 to 20% by weight, based on the total weight of the matrix.

38. (New) The gel matrix-as claimed in claim 26, wherein the total concentration of the at least one active ingredient is from 2 to 10% by weight, based on the total weight of the matrix.

39. (New) The gel matrix-as claimed in claim 26, wherein the at least one active ingredient includes nonivamide.

40. (New) The gel matrix-as claimed in claim 39, wherein the at least one penetration enhancer includes isopropyl palmitate.